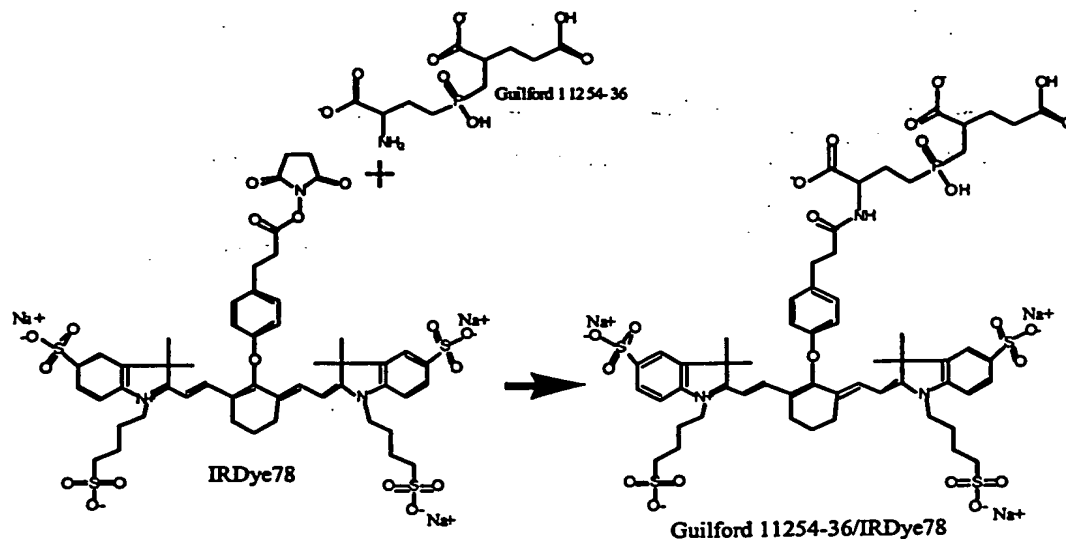


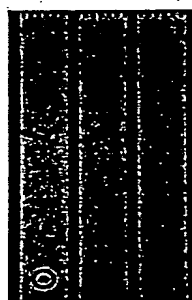
A.



B.

Guilford  
11254-36  
Normal Phase

1 2 3

Notes

- Unlabeled Molecule of Interest Stained with Ninhydrin (red)
- = Mobile Phase Front
- ← = Desired NIR Fluorophore-Coupled Product
- ↙ = Unlabeled Molecule of Interest
- O = Origin

Figure 1

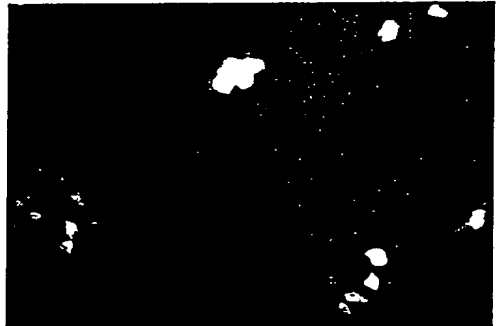
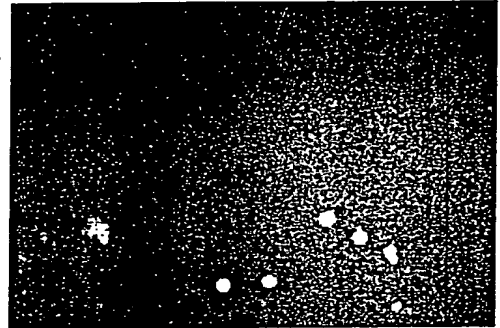
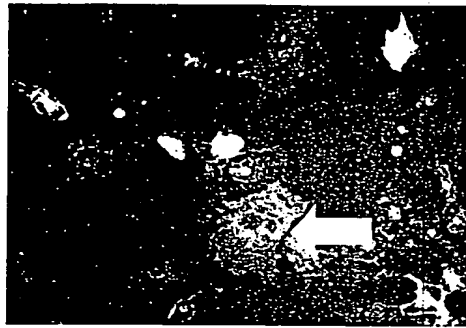
Near-Infrared  
Fluorescence

GFP  
Fluorescence

Phase  
Contrast

PSMA and GFP Co-  
Expressing Adenovirus

GFP Only Expressing  
Adenovirus

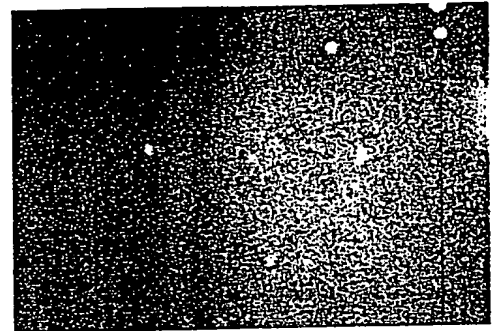
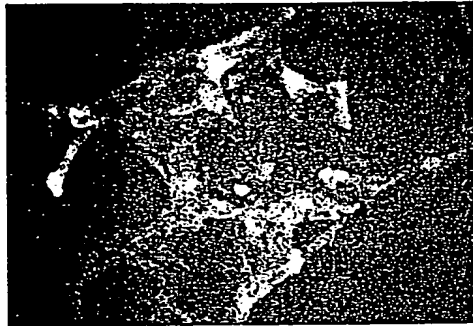


**Figure 2**

PSMA and GFP Co-  
Expressing Adenovirus

Erb-B2 and GFP Co-  
Expressing Adenovirus

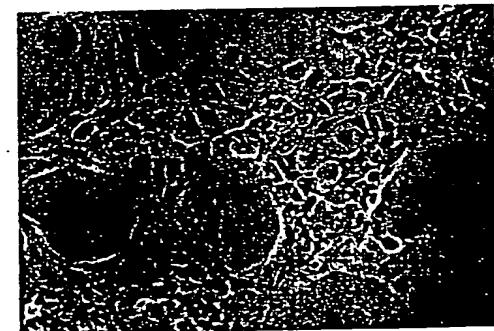
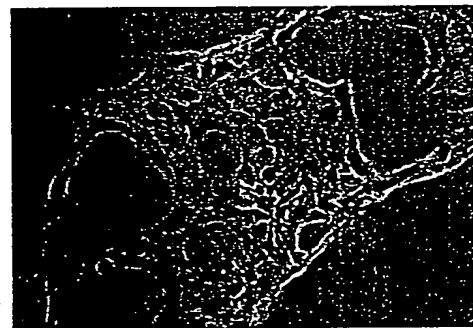
Near-Infrared  
Fluorescence



GFP  
Fluorescence



Phase  
Contrast



**Figure 3**

FIG. 4

**Near-Infrared Fluorescence Detection of  
PSMA using Guilford 11254-36/IRDye78**

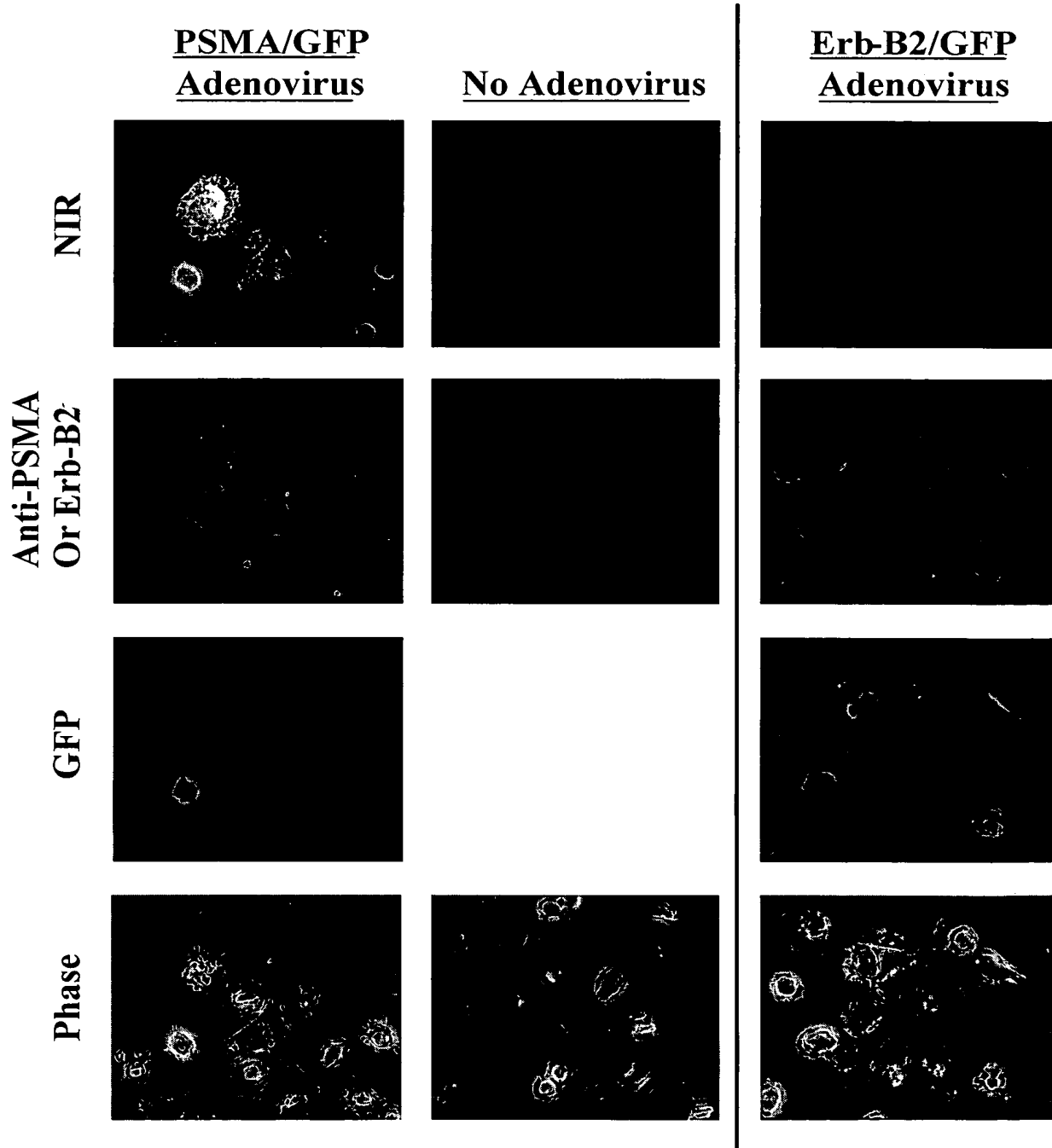
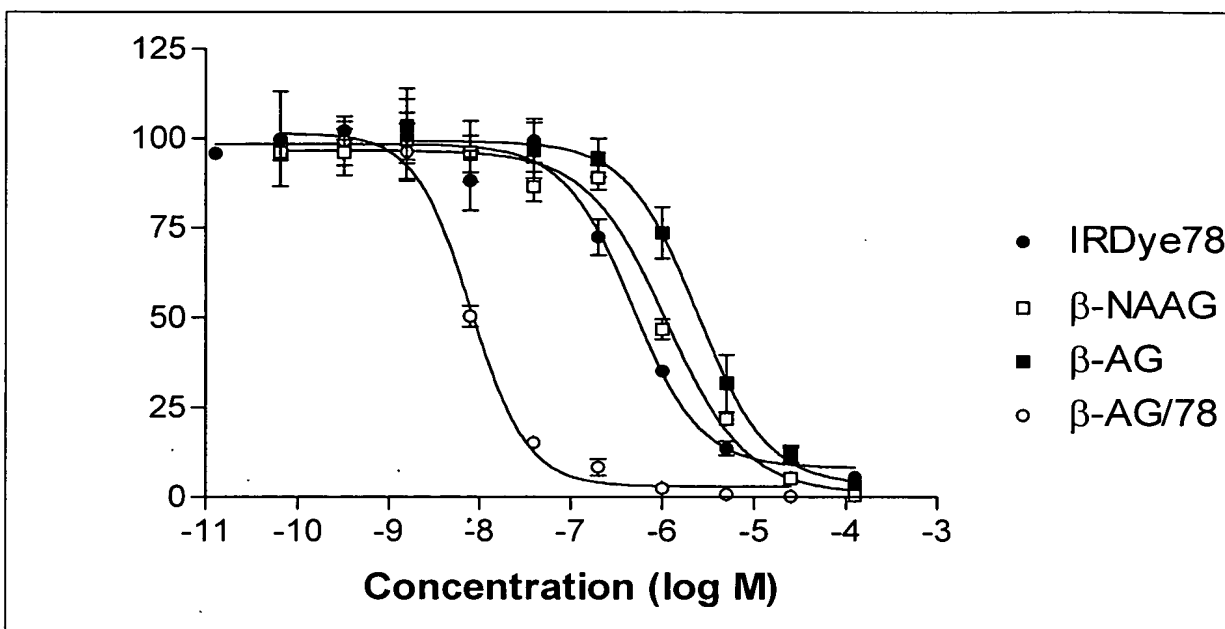


FIG. 5



Structure of the beta-AG/IRDye78 conjugate (beta-AG/78)

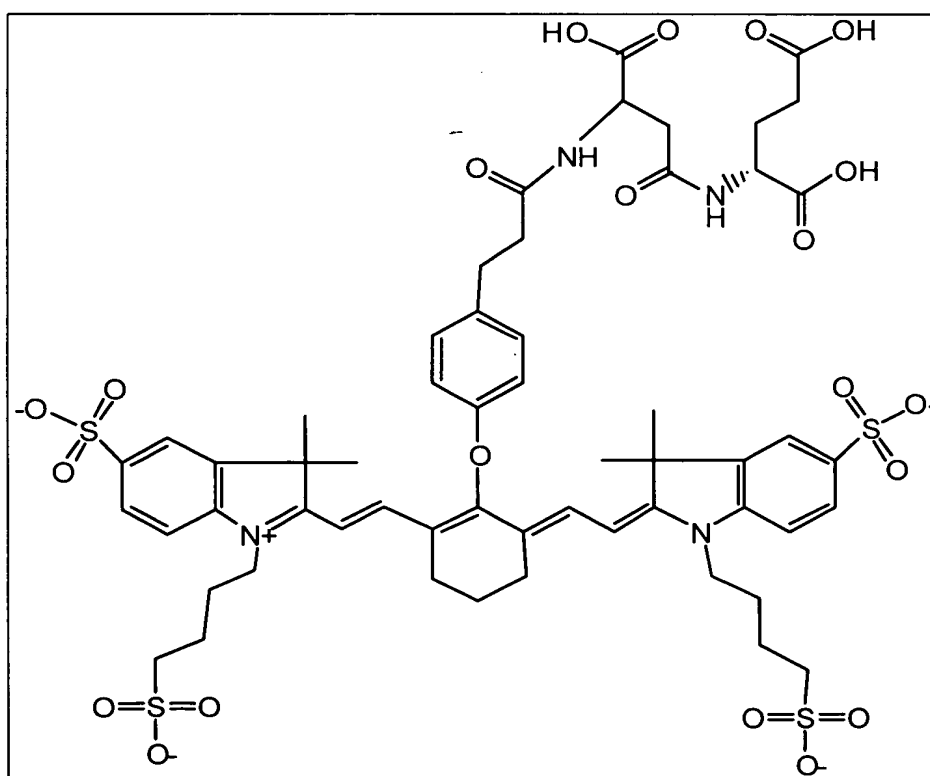
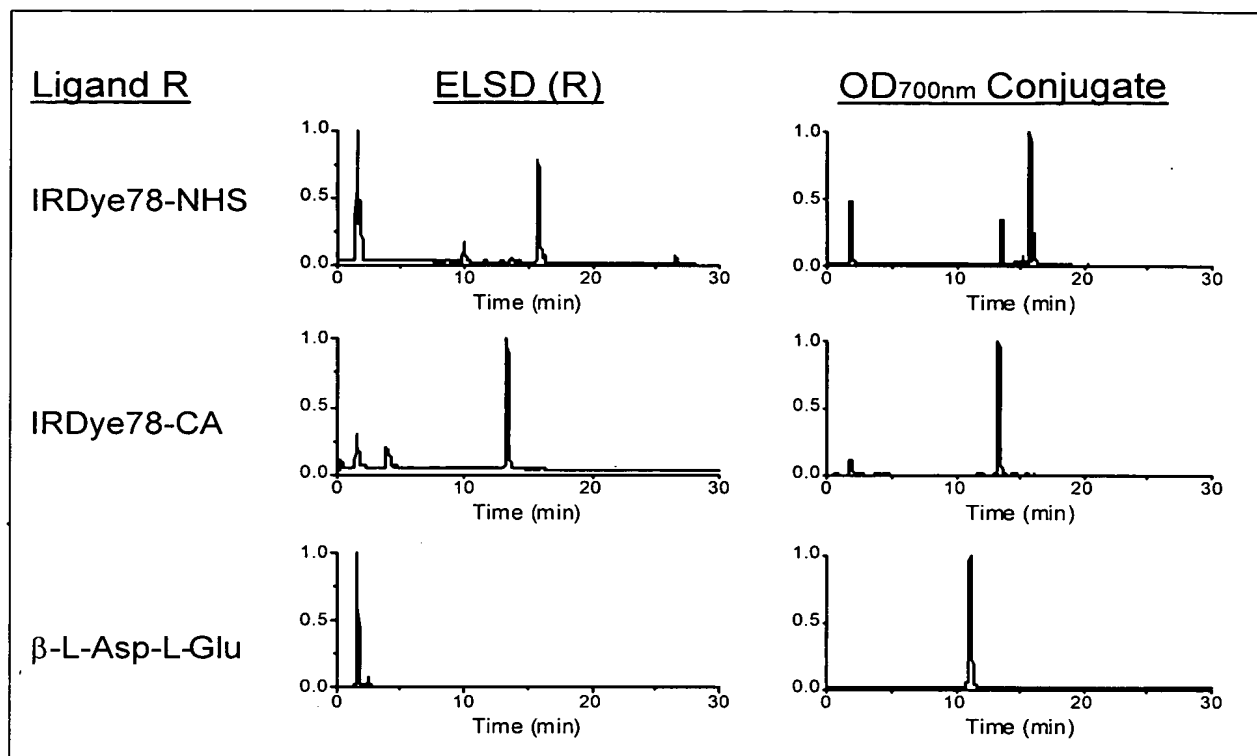


FIG. 6



Structure of beta-AG

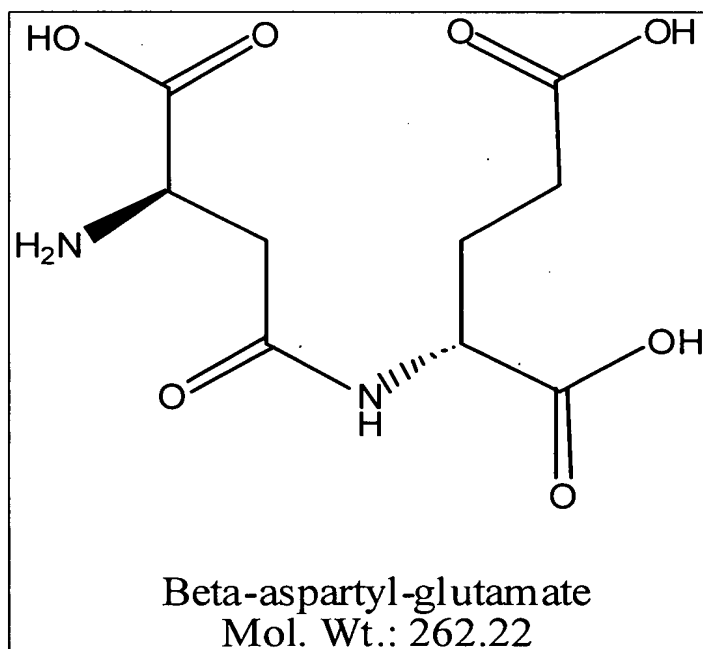
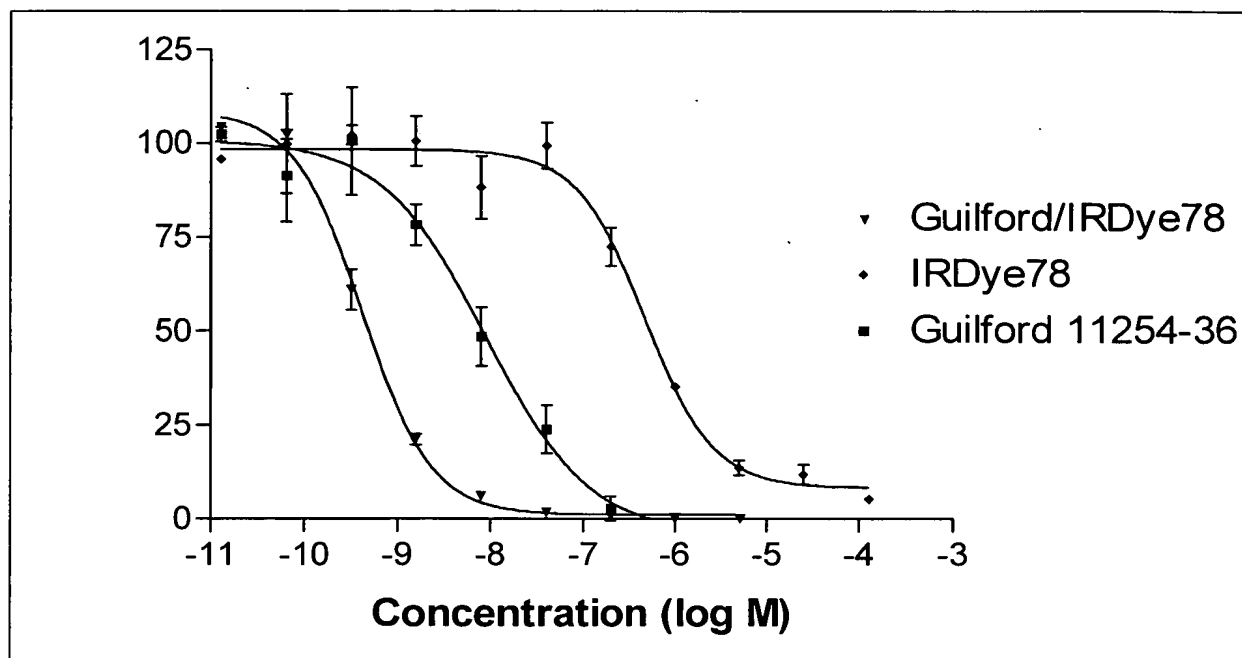


FIG. 7



Guilford 11254-36

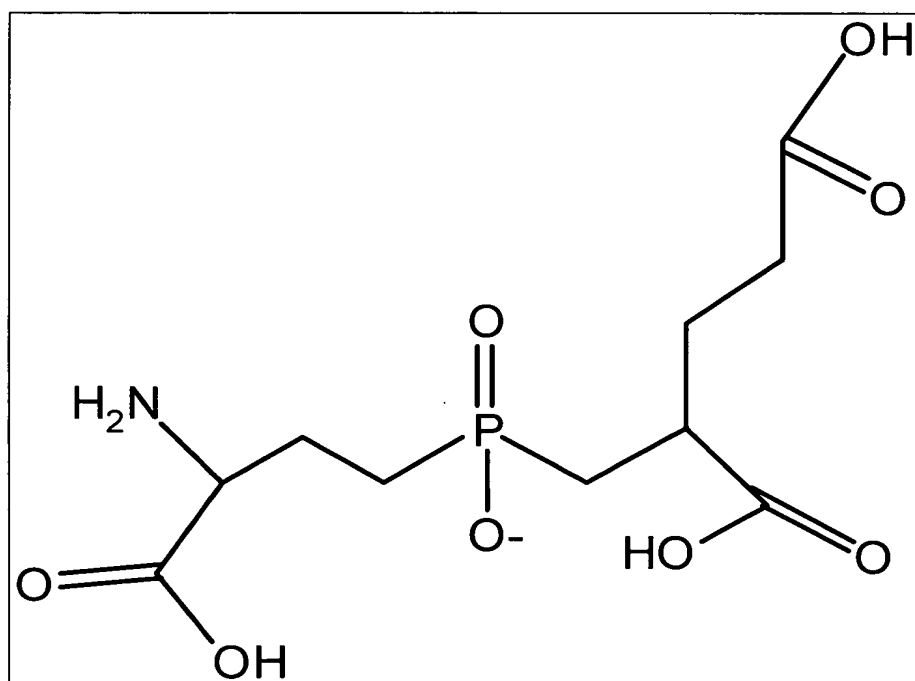


FIG. 8

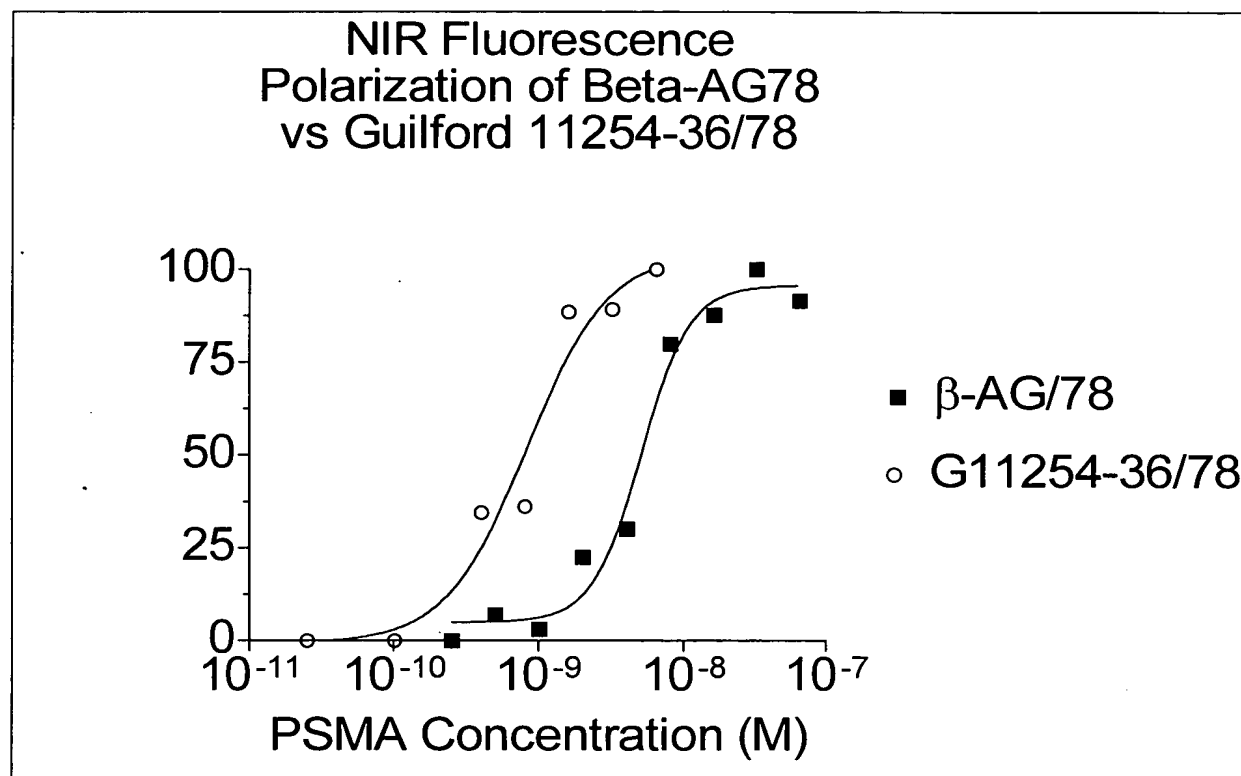




FIG. 9

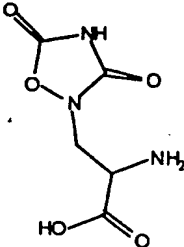
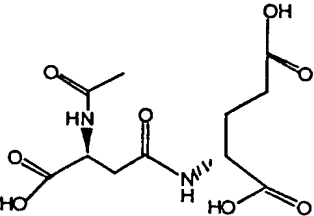
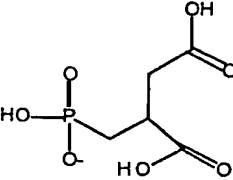
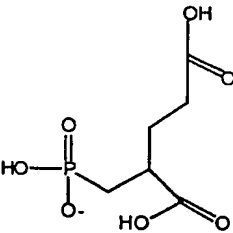
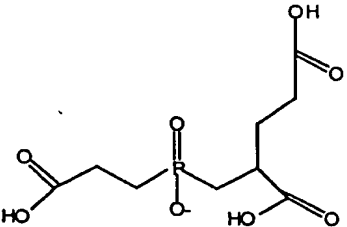
<u>Compound</u>	<u>K<sub>i</sub> (Range)</u>	
Quisqualic Acid (52809-07-1)	155 nM - 2 $\mu$ M (Non-Competitive)	
$\beta$ -NAAG (Spaghulmic Acid; 4910-46-7)	201-700 nM (Competitive)	
Guilford-4	700 nM	
2-(phosphonomethyl) pentanedioic acid (PMPA; Guilford 3)	98-275 pM	
Guilford-7	1.9 nM	

FIG. 10

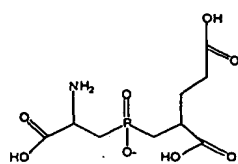
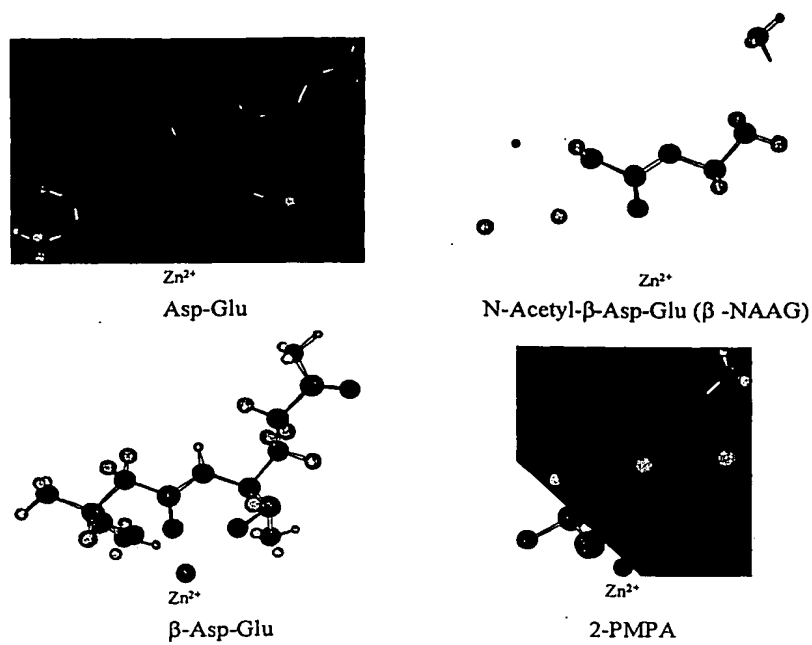


FIG. 11

